



SEQUENCE LISTING

<110> MASCI, PANTALEONE PAUL
LAVIN, MARTIN FRANCIS
GAFFNEY, PATRICK JOSEPH
SOROKINA, NATALYA IGOREVNA
FILIPPOVICH, IGOR VLADIMIROVICH

<120> PLASMIN INHIBITORS FROM THE AUSTRALIAN BROWN SNAKE
PSEUDONAJA TEXTILIS TEXTILIS

<130> 017227-0193

<140> 09/700,179
<141> 2001-07-27

<150> PCT/AU99/00343
<151> 1999-05-07

<150> AU PP3450
<151> 1999-05-11

<160> 70

<170> PatentIn Ver. 3.3

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Lys Asp Arg Pro Asp Phe Cys Glu Leu Pro Ala Asp Thr Gly Pro Cys
1 5 10 15
aga gtc aga ttc cca tcc ttc tac tac aac cca gat gaa aaa aag tgc 96
Arg Val Arg Phe Pro Ser Phe Tyr Tyr Asn Pro Asp Glu Lys Lys Cys
20 25 30
cta gag ttt att tat ggt gga tgc gaa ggg aat gct aac aat ttt atc 144
Leu Glu Phe Ile Tyr Gly Gly Cys Glu Gly Asn Ala Asn Asn Phe Ile
35 40 45
acc aaa gag gaa tgc gaa agc acc tgt gct gcc tga 180
Thr Lys Glu Glu Cys Glu Ser Thr Cys Ala Ala
50 55

<210> 2
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 1 5 10 15
 Arg Val Arg Phe Pro Ser Phe Tyr Tyr Asn Pro Asp Glu Lys Lys Cys
 20 25 30
 Leu Glu Phe Ile Tyr Gly Gly Cys Glu Gly Asn Ala Asn Asn Phe Ile
 35 40 45
 Thr Lys Glu Glu Cys Glu Ser Thr Cys Ala Ala
 50 55

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 Lys Asp Arg Pro Glu Leu Cys Glu Leu Pro Pro Asp Thr Gly Pro Cys
 1 5 10 15
 aga gtc aga ttc cca tcc ttc tac tac aac cca gat gaa caa aaa tgc 96
 Arg Val Arg Phe Pro Ser Phe Tyr Tyr Asn Pro Asp Glu Gln Lys Cys
 20 25 30
 cta gag ttt att tat ggt gga tgc gaa ggg aat gct aac aat ttt atc 144
 Leu Glu Phe Ile Tyr Gly Gly Cys Glu Gly Asn Ala Asn Asn Phe Ile
 35 40 45
 acc aaa gag gaa tgc gaa agc acc tgt gct gcc tga 180
 Thr Lys Glu Glu Cys Glu Ser Thr Cys Ala Ala
 50 55

<210> 4
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 <212> PRT
 <213> Pseudonaja textilis

<400> 4
 Lys Asp Arg Pro Glu Leu Cys Glu Leu Pro Pro Asp Thr Gly Pro Cys

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      1              5              10              15
Arg Val Arg Phe Pro Ser Phe Tyr Tyr Asn Pro Asp Glu Gln Lys Cys
      20              25              30
Leu Glu Phe Ile Tyr Gly Gly Cys Glu Gly Asn Ala Asn Asn Phe Ile
      35              40              45
Thr Lys Glu Glu Cys Glu Ser Thr Cys Ala Ala
      50              55

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<210> 5
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aag gac cgt cca aat ttc tgt aaa ctg cct gct gaa acc gga cga tgt      48
Lys Asp Arg Pro Asn Phe Cys Lys Leu Pro Ala Glu Thr Gly Arg Cys
  1              5              10              15

aat gcc aaa atc cca cgc ttc tac tac aac cca cgt caa cat caa tgc      96
Asn Ala Lys Ile Pro Arg Phe Tyr Tyr Asn Pro Arg Gln His Gln Cys
      20              25              30

ata gag ttt ctc tat ggt gga tgc gga ggg aat gct aac aat ttt aag      144
Ile Glu Phe Leu Tyr Gly Gly Cys Gly Gly Asn Ala Asn Asn Phe Lys
      35              40              45

acc att aag gaa tgc gaa agc acc tgt gct gca tga      180
Thr Ile Lys Glu Cys Glu Ser Thr Cys Ala Ala
      50              55

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<210> 6
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Lys Asp Arg Pro Asn Phe Cys Lys Leu Pro Ala Glu Thr Gly Arg Cys
  1              5              10              15

Asn Ala Lys Ile Pro Arg Phe Tyr Tyr Asn Pro Arg Gln His Gln Cys
      20              25              30

Ile Glu Phe Leu Tyr Gly Gly Cys Gly Gly Asn Ala Asn Asn Phe Lys
      35              40              45

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Thr Ile Lys Glu Cys Glu Ser Thr Cys Ala Ala
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 Lys Asp His Pro Lys Phe Cys Glu Leu Pro Ala Glu Thr Gly Ser Cys
 1 5 10 15
 aaa ggc aac gtc cca cgc ttc tac tac aac gca gat cat cat caa tgc 96
 Lys Gly Asn Val Pro Arg Phe Tyr Tyr Asn Ala Asp His His Gln Cys
 20 25 30
 cta aaa ttt att tat ggt gga tgt gga ggg aat gct aac aat ttt aag 144
 Leu Lys Phe Ile Tyr Gly Gly Cys Gly Gly Asn Ala Asn Asn Phe Lys
 35 40 45
 acc ata gag gaa ggc aaa agc acc tgt gct gcc tga 180
 Thr Ile Glu Glu Gly Lys Ser Thr Cys Ala Ala
 50 55

<210> 8
 <211> 59
 <212> PRT
 <213> Pseudonaja textilis

<400> 8
 1 5 10 15
 Lys Gly Asn Val Pro Arg Phe Tyr Tyr Asn Ala Asp His His Gln Cys
 20 25 30
 Leu Lys Phe Ile Tyr Gly Gly Cys Gly Gly Asn Ala Asn Asn Phe Lys
 35 40 45
 Thr Ile Glu Glu Gly Lys Ser Thr Cys Ala Ala
 50 55

<210> 9
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 <212> DNA

<213> *Pseudonaja textilis*

<220>

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aag gac cgt cca aaa ttc tgt gaa ctg ctt cct gac acc gga tca tgt   48
Lys Asp Arg Pro Lys Phe Cys Glu Leu Leu Pro Asp Thr Gly Ser Cys
  1             5             10             15

gaa gac ttt acc gga gcc ttc cac tac agc aca cgt gat cgt gaa tgc   96
                20             25             30

ata gag ttt att tat ggt gga tgc gga ggg aat gct aac aat ttt atc   144
Ile Glu Phe Ile Tyr Gly Gly Cys Gly Gly Asn Ala Asn Asn Phe Ile
      35             40             45

acc aaa gag gaa tgc gaa agc acc tgt gct gcc tga                   180
Thr Lys Glu Glu Cys Glu Ser Thr Cys Ala Ala
  50             55

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<210> 10

<211> 59

<212> PRT

<213> *Pseudonaja textilis*

<400> 10

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Lys Asp Arg Pro Lys Phe Cys Glu Leu Leu Pro Asp Thr Gly Ser Cys
  1             5             10             15

Glu Asp Phe Thr Gly Ala Phe His Tyr Ser Thr Arg Asp Arg Glu Cys
      20             25             30

Ile Glu Phe Ile Tyr Gly Gly Cys Gly Gly Asn Ala Asn Asn Phe Ile
      35             40             45

Thr Lys Glu Glu Cys Glu Ser Thr Cys Ala Ala
  50             55

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<210> 11

<211> 180

<212> DNA

<213> *Pseudonaja textilis*

<220>

<221> CDS

<222> (1)..(180)

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<221> mat_peptide

<222> (1)..(180)

<400> 11

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aag gac cgt cca aag ttc tgt gaa ctg cct gct gac atc gga cca tgg      48
Lys Asp Arg Pro Lys Phe Cys Glu Leu Pro Ala Asp Ile Gly Pro Trp
 1             5             10             15

gat gac ttt acc gga gcc ttc cac tac agc cca cgt gaa cat gaa tgc      96
Asp Asp Phe Thr Gly Ala Phe His Tyr Ser Pro Arg Glu His Glu Cys
             20             25             30

ata gag ttt att tat ggt gga tgc aaa ggg aat gct aac aac ttt aat     144
Ile Glu Phe Ile Tyr Gly Gly Cys Lys Gly Asn Ala Asn Asn Phe Asn
             35             40             45

acc caa gag caa tgc gaa agc acc tgt gct gcc tga                      180
Thr Gln Glu Gln Cys Glu Ser Thr Cys Ala Ala
             50             55

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<210> 12

<211> 59

<212> PRT

<213> Pseudonaja textilis

<400> 12

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Lys Asp Arg Pro Lys Phe Cys Glu Leu Pro Ala Asp Ile Gly Pro Trp
 1             5             10             15

Asp Asp Phe Thr Gly Ala Phe His Tyr Ser Pro Arg Glu His Glu Cys
             20             25             30

Ile Glu Phe Ile Tyr Gly Gly Cys Lys Gly Asn Ala Asn Asn Phe Asn
             35             40             45

Thr Gln Glu Gln Cys Glu Ser Thr Cys Ala Ala
             50             55

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<210> 13

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<212> DNA

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<400> 13

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atg tct tct gga ggt ctt ctt ctc ctg ctg gga ctc ctc acc ctc tgg      48
Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
 1             5             10             15

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gag gtg ctg acc ccc gtc tcc agc
 Glu Val Leu Thr Pro Val Ser Ser
 20

72

<210> 14
 <211> 24
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 <213> Pseudonaja textilis

<400> 14
 Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
 1 5 10 15

Glu Val Leu Thr Pro Val Ser Ser
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<210> 15
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 <212> DNA
 <213> Pseudonaja textilis

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 Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
 -20 -15 -10

gag gtg ctg acc ccc gtc tcc agc aag gac cgt ccg gat ttc tgt gaa 96
 Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Asp Phe Cys Glu
 -5 -1 1 5

ctg cct gct gac acc gga cca tgt aga gtc aga ttc cca tcc ttc tac 144
 Leu Pro Ala Asp Thr Gly Pro Cys Arg Val Arg Phe Pro Ser Phe Tyr
 10 15 20

tac aac cca gat gaa aaa aag tgc cta gag ttt att tat ggt gga tgc 192
 Tyr Asn Pro Asp Glu Lys Lys Cys Leu Glu Phe Ile Tyr Gly Gly Cys
 25 30 35 40

gaa ggg aat gct aac aat ttt atc acc aaa gag gaa tgc gaa agc acc 240
 Glu Gly Asn Ala Asn Asn Phe Ile Thr Lys Glu Glu Cys Glu Ser Thr
 45 50 55

tgt gct gcc tga 252

Cys Ala Ala

<210> 16
 <211> 83
 <212> PRT
 <213> Pseudonaja textilis

<400> 16
 Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
 -20 -15 -10
 Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Asp Phe Cys Glu
 -5 -1 1 5
 Leu Pro Ala Asp Thr Gly Pro Cys Arg Val Arg Phe Pro Ser Phe Tyr
 10 15 20
 Tyr Asn Pro Asp Glu Lys Lys Cys Leu Glu Phe Ile Tyr Gly Gly Cys
 25 30 35 40
 Glu Gly Asn Ala Asn Asn Phe Ile Thr Lys Glu Glu Cys Glu Ser Thr
 45 50 55

Cys Ala Ala

<210> 17
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 <212> DNA
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<400> 17
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 Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
 -20 -15 -10
 gag gtg ctg acc ccc gtc tcc agc aag gac cgt cca gag ttg tgt gaa 96
 Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Glu Leu Cys Glu
 -5 -1 1 5
 ctg cct cct gac acc gga cca tgt aga gtc aga ttc cca tcc ttc tac 144
 Leu Pro Pro Asp Thr Gly Pro Cys Arg Val Arg Phe Pro Ser Phe Tyr


```

      10              15              20
tac aac cca gat gaa caa aaa tgc cta gag ttt att tat ggt gga tgc 192
Tyr Asn Pro Asp Glu Gln Lys Cys Leu Glu Phe Ile Tyr Gly Gly Cys
  25              30              35              40

gaa ggg aat gct aac aat ttt atc acc aaa gag gaa tgc gaa agc acc 240
Glu Gly Asn Ala Asn Asn Phe Ile Thr Lys Glu Glu Cys Glu Ser Thr
      45              50              55

tgt gct gcc tga 252
Cys Ala Ala

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<210> 18
<211> 83
<212> PRT
<213> Pseudonaja textilis

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<400> 18
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      -20      -15      -10
Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Glu Leu Cys Glu
      -5      -1      1      5

Leu Pro Pro Asp Thr Gly Pro Cys Arg Val Arg Phe Pro Ser Phe Tyr
      10      15      20

Tyr Asn Pro Asp Glu Gln Lys Cys Leu Glu Phe Ile Tyr Gly Gly Cys
  25              30              35              40

Glu Gly Asn Ala Asn Asn Phe Ile Thr Lys Glu Glu Cys Glu Ser Thr
      45              50              55

Cys Ala Ala

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<210> 19
<211> 252
<212> DNA
<213> Pseudonaja textilis

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<220>
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<220>
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<220>
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<400> 19

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Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
-20 -15 -10

gag gtg ctg acc ccc gtc tcc agc aag gac cgt cca aat ttc tgt aaa 96
Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Asn Phe Cys Lys
-5 -1 1 5

ctg cct gct gaa acc gga cga tgt aat gcc aaa atc cca cgc ttc tac 144
Leu Pro Ala Glu Thr Gly Arg Cys Asn Ala Lys Ile Pro Arg Phe Tyr
10 15 20

tac aac cca cgt caa cat caa tgc ata gag ttt ctc tat ggt gga tgc 192
Tyr Asn Pro Arg Gln His Gln Cys Ile Glu Phe Leu Tyr Gly Gly Cys
25 30 35 40

gga ggg aat gct aac aat ttt aag acc att aag gaa tgc gaa agc acc 240
Gly Gly Asn Ala Asn Asn Phe Lys Thr Ile Lys Glu Cys Glu Ser Thr
45 50 55

tgt gct gca tga 252
Cys Ala Ala

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<210> 20
 <211> 83
 <212> PRT
 <213> *Pseudonaja textilis*

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Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Asn Phe Cys Lys
-5 -1 1 5

Leu Pro Ala Glu Thr Gly Arg Cys Asn Ala Lys Ile Pro Arg Phe Tyr
10 15 20

Tyr Asn Pro Arg Gln His Gln Cys Ile Glu Phe Leu Tyr Gly Gly Cys
25 30 35 40

Gly Gly Asn Ala Asn Asn Phe Lys Thr Ile Lys Glu Cys Glu Ser Thr
45 50 55

Cys Ala Ala

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<210> 21
 <211> 252
 <212> DNA
 <213> *Pseudonaja textilis*

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<222> (1)..(72)

<220>

<221> mat_peptide

<222> (73)..(249)

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Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp	
-20 -15 -10	
gag gtg ctg acc ccc gtc tcc agc aag gac cat cca aaa ttc tgt gaa	96
Glu Val Leu Thr Pro Val Ser Ser Lys Asp His Pro Lys Phe Cys Glu	
-5 -1 1 5	
ctc cct gct gaa acc gga tca tgt aaa ggc aac gtc cca cgc ttc tac	144
Leu Pro Ala Glu Thr Gly Ser Cys Lys Gly Asn Val Pro Arg Phe Tyr	
10 15 20	
tac aac gca gat cat cat caa tgc cta aaa ttt att tat ggt gga tgt	192
Tyr Asn Ala Asp His His Gln Cys Leu Lys Phe Ile Tyr Gly Gly Cys	
25 30 35 40	
gga ggg aat gct aac aat ttt aag acc ata gag gaa ggc aaa agc acc	240
Gly Gly Asn Ala Asn Asn Phe Lys Thr Ile Glu Glu Gly Lys Ser Thr	
45 50 55	
tgt gct gcc tga	252
Cys Ala Ala	

<210> 22

<211> 83

<212> PRT

<213> Pseudonaja textilis

<400> 22

Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp	
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Glu Val Leu Thr Pro Val Ser Ser Lys Asp His Pro Lys Phe Cys Glu	
-5 -1 1 5	
Leu Pro Ala Glu Thr Gly Ser Cys Lys Gly Asn Val Pro Arg Phe Tyr	
10 15 20	
Tyr Asn Ala Asp His His Gln Cys Leu Lys Phe Ile Tyr Gly Gly Cys	
25 30 35 40	
Gly Gly Asn Ala Asn Asn Phe Lys Thr Ile Glu Glu Gly Lys Ser Thr	
45 50 55	
Cys Ala Ala	

<210> 23
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 <222> (73)..(249)

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 Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
 -20 -15 -10

gag gtg ctg acc ccc gtc tcc agc aag gac cgt cca aaa ttc tgt gaa 96
 Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Lys Phe Cys Glu
 -5 -1 1 5

ctg ctt cct gac acc gga tca tgt gaa gac ttt acc gga gcc ttc cac 144
 Leu Leu Pro Asp Thr Gly Ser Cys Glu Asp Phe Thr Gly Ala Phe His
 10 15 20

tac agc aca cgt gat cgt gaa tgc ata gag ttt att tat ggt gga tgc 192
 Tyr Ser Thr Arg Asp Arg Glu Cys Ile Glu Phe Ile Tyr Gly Gly Cys
 25 30 35 40

gga ggg aat gct aac aat ttt atc acc aaa gag gaa tgc gaa agc acc 240
 Gly Gly Asn Ala Asn Asn Phe Ile Thr Lys Glu Glu Cys Glu Ser Thr
 45 50 55

tgt gct gcc tga 252
 Cys Ala Ala

<210> 24
 <211> 83
 <212> PRT
 <213> *Pseudonaja textilis*

<400> 24
 Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
 -20 -15 -10

Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Lys Phe Cys Glu
 -5 -1 1 5

Leu Leu Pro Asp Thr Gly Ser Cys Glu Asp Phe Thr Gly Ala Phe His
 10 15 20
 Tyr Ser Thr Arg Asp Arg Glu Cys Ile Glu Phe Ile Tyr Gly Gly Cys
 25 30 35 40
 Gly Gly Asn Ala Asn Asn Phe Ile Thr Lys Glu Glu Cys Glu Ser Thr
 45 50 55
 Cys Ala Ala

<210> 25
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 <212> DNA
 <213> *Pseudonaja textilis*

<220>
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 Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
 -20 -15 -10
 gag gtg ctg acc ccc gtc tcc agc aag gac cgt cca aag ttc tgt gaa 96
 Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Lys Phe Cys Glu
 -5 -1 1 5
 ctg cct gct gac atc gga cca tgg gat gac ttt acc gga gcc ttc cac 144
 Leu Pro Ala Asp Ile Gly Pro Trp Asp Asp Phe Thr Gly Ala Phe His
 10 15 20
 tac agc cca cgt gaa cat gaa tgc ata gag ttt att tat ggt gga tgc 192
 Tyr Ser Pro Arg Glu His Glu Cys Ile Glu Phe Ile Tyr Gly Gly Cys
 25 30 35 40
 aaa ggg aat gct aac aac ttt aat acc caa gag caa tgc gaa agc acc 240
 Lys Gly Asn Ala Asn Asn Phe Asn Thr Gln Glu Gln Cys Glu Ser Thr
 45 50 55
 tgt gct gcc tga 252
 Cys Ala Ala

<210> 26

<211> 83
 <212> PRT
 <213> Pseudonaja textilis

<400> 26
 Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
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 Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Lys Phe Cys Glu
 -5 -1 1 5
 Leu Pro Ala Asp Ile Gly Pro Trp Asp Asp Phe Thr Gly Ala Phe His
 10 15 20
 Tyr Ser Pro Arg Glu His Glu Cys Ile Glu Phe Ile Tyr Gly Gly Cys
 25 30 35 40
 Lys Gly Asn Ala Asn Asn Phe Asn Thr Gln Glu Gln Cys Glu Ser Thr
 45 50 55
 Cys Ala Ala

<210> 27
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Degenerate
 sense primer

<220>
 <221> modified_base
 <222> (21)
 <223> A, T, C, G, other or unknown

<400> 27
 atgaargaya grcchgaryt ngar

24

<210> 28
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Degenerate
 antisense primer

<400> 28
 gtrctytcrt gytctytcy

18

<210> 29
 <211> 30
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Gene-specific
 forward primer for Txln1

 <400> 29
 atatatggat ccaaggaccg gcctgacttc 30

 <210> 30
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Gene-specific
 reverse primer for Txln1

 <400> 30
 aacgggaatt ctcagagcca cacgtgcttt c 31

 <210> 31
 <211> 32
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Gene-specific
 reverse primer for Txln2

 <400> 31
 aacgggaatt ctcattgagcc acaggtagac tc 32

 <210> 32
 <211> 45
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: RACE-ready long
 universal reverse primer

 <400> 32
 ctaatacgac tcactatagg gcaagcagtg gtaacaacgc agagt 45

 <210> 33
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: RACE-ready
 short universal reverse primer

<400> 33
 ctaatacgac tcactatagg gc 22

<210> 34
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: RACE-ready
 nested universal reverse primer

<400> 34
 aagcagtgggt aacaacgcag agt 23

<210> 35
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Txln1-gene
 specific forward primer

<400> 35
 atcagcggat ccatgtctgg aggt 24

<210> 36
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Txln1
 gene-specific reverse primer

<400> 36
 tctcctgaat tctcaggcag cacaggt 27

<210> 37
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Txln-active
 peptide sequence forward primer

<400> 37
 attataggat ccaaggaccg tccggat 27

<210> 38
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Gene-specific
 forward primer for txln2

<400> 38
 attataggat ccaaggaccg tccagag 27

<210> 39
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Gene-specific
 forward primer for Txln3

<400> 39
 aacgtcggat ccaaggaccg tccaaat 27

<210> 40
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Gene-specific
 forward primer for Txln4

<400> 40
 aacgtcggat ccaaggacca tccaaaa 27

<210> 41
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Gene-specific
 forward primer for Txln5

<400> 41
 aacgtcggat tcaaggaccg tccaaaa 27

<210> 42

<211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Gene-specific
 forward primer for Txln6

<400> 42
 attgtcggat ccaaggacct gccaaag 27

<210> 43
 <211> 408
 <212> DNA
 <213> Pseudonaja textilis

<220>
 <221> CDS
 <222> (12)..(191)

<220>
 <221> sig_peptide
 <222> (12)..(83)

<220>
 <221> mat_peptide
 <222> (84)..(191)

<400> 43
 ggagcttcac c atg tct tct gga ggt ctt ctt ctc ctg ctg gga ctc ctc 50
 Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu
 -20 -15

acc ctc tgg gag gtg ctg acc ccc gtc tcc agc aag gac cgt cca gag 98
 Thr Leu Trp Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Glu
 -10 -5 -1 1 5

ttg tgt gaa ctg cct cct gac acc gga cca tgt aga gtc aga tcc cca 146
 Leu Cys Glu Leu Pro Pro Asp Thr Gly Pro Cys Arg Val Arg Ser Pro
 10 15 20

tcc ttc tac tac aac cca gat gaa caa aaa tgc cta gag ttt att 191
 Ser Phe Tyr Tyr Asn Pro Asp Glu Gln Lys Cys Leu Glu Phe Ile
 25 30 35

tatggtggat gcgaaggga tgctaaccac ttttatcacc aaagaggaat gcgaaagcac 251

ctgtgctgcc tgaatgagga gaccctcctg gattggatcg acagttccaa cttgacccaa 311

agaccctgct tctgccctgg accaccctgg acacccttcc cccaaacccc accctggact 371

aattcctttt ctctgcaata aagcttttggg tccagct 408

<210> 44
 <211> 60

<212> PRT

<213> *Pseudonaja textilis*

<400> 44

Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
 -20 -15 -10

Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Glu Leu Cys Glu
 -5 -1 1 5

Leu Pro Pro Asp Thr Gly Pro Cys Arg Val Arg Ser Pro Ser Phe Tyr
 10 15 20

Tyr Asn Pro Asp Glu Gln Lys Cys Leu Glu Phe Ile
 25 30 35

<210> 45

<211> 59

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Formula
 peptide

<220>

<221> MOD_RES

<222> (3)

<223> Lys, Arg, His, Asp, Glu, Gln or Asn; preferably
 His or Arg

<220>

<221> MOD_RES

<222> (5)

<223> Lys, Arg, His, Asp, Glu, Gln or Asn; suitably Lys,
 Asn, Glu or Asp

<220>

<221> MOD_RES

<222> (6)

<223> Hydrophobic amino acid; preferably Phe or Leu

<220>

<221> MOD_RES

<222> (8)

<220>

<221> MOD_RES

<222> (10)

<223> Neutral amino acid, Pro, Ala, Gly, Ser, Thr, Val
 or Leu; suitably Pro or Leu

<220>

<221> MOD_RES

<222> (11)

<223> Neutral amino acid, Pro, Ala, Gly, Ser, Thr, Val

or Leu, preferably Pro or Ala

<220>

<221> MOD_RES

<222> (12)

<223> Lys, Arg, His, Asp, Glu, Gln or Asn, preferably
Glu or Asp

<220>

<221> MOD_RES

<222> (13)

<223> Neutral amino acid, Pro, Ala, Gly, Ser, Thr, Val
or Leu, suitably Thr or Ile

<220>

<221> MOD_RES

<222> (15)

<223> Any amino acid

<220>

<221> MOD_RES

<222> (17)

<223> Lys, Arg, His, Asp, Glu, Gln or Asn; suitably Lys,
Asn, Glu, Asp or Arg

<220>

<221> MOD_RES

<222> (18)

<223> Any amino acid; preferably Asp, Gly, Ala or Val

<220>

<221> MOD_RES

<222> (19)

<223> Any amino acid; suitably Phe, Asn, Lys or Arg

<220>

<221> MOD_RES

<222> (20)

<223> Any amino acid; preferably Thr, Pro, Phe or Ile

<220>

<221> MOD_RES

<222> (21)

<223> Neutral amino acid, Pro, Ala, Gly, Ser, Thr, Val
or Leu

<220>

<221> MOD_RES

<222> (22)

<223> Any amino acid; suitably Ala, Ser or Arg

<220>

<221> MOD_RES

<222> (24)

<223> Aromatic amino acid; preferably Tyr or His

<220>

<221> MOD_RES
 <222> (26)
 <223> Any amino acid; suitably Ser or Asn

 <220>
 <221> MOD_RES
 <222> (27)
 <223> Neutral amino acid, Pro, Ala, Gly, Ser, Thr, Val
 or Leu; preferably Pro, Ala or Thr

 <220>
 <221> MOD_RES
 <222> (28)
 <223> Lys, Arg, His, Asp, Glu, Gln or Asn

 <220>
 <221> MOD_RES
 <222> (29)
 <223> Lys, Arg, His, Asp, Glu, Gln or Asn; suitably Glu,
 Asp, His or Gln

 <220>
 <221> MOD_RES
 <222> (30)
 <223> Lys, Arg, His, Asp, Glu, Gln or Asn; preferably
 His, Lys, Arg or Gln

 <220>
 <221> MOD_RES
 <222> (31)
 <223> Lys, Arg, His, Asp, Glu, Gln or Asn

 <220>
 <221> MOD_RES
 <222> (33)
 <223> Neutral amino acid, Pro, Ala, Gly, Ser, Thr, Val
 or Leu; preferably Leu or Ile

 <220>
 <221> MOD_RES
 <222> (34)
 <223> Lys, Arg, His, Asp, Glu, Gln or Asn; suitably Glu
 or Lys

 <220>
 <221> MOD_RES
 <222> (36)
 <223> Neutral amino acid, Pro, Ala, Gly, Ser, Thr, Val
 or Leu; suitably Leu or Ile

 <220>
 <221> MOD_RES
 <222> (41)
 <223> Any amino acid; preferably Glu, Gly or Lys

 <220>
 <221> MOD_RES

<222> (42)
 <223> Neutral amino acid, Pro, Ala, Gly, Ser, Thr, Val,
 Leu or Cys; preferably Gly

<220>
 <221> MOD_RES
 <222> (48)
 <223> Any amino acid; suitably Lys, Asn or Ile

<220>
 <221> MOD_RES
 <222> (50)
 <223> Any amino acid; preferably Lys, Gln or Ile

<400> 45
 Lys Asp Xaa Pro Xaa Xaa Cys Xaa Leu Xaa Xaa Xaa Xaa Gly Xaa Cys
 1 5 10 15
 Xaa Xaa Xaa Xaa Xaa Xaa Phe Xaa Tyr Xaa Xaa Xaa Xaa Xaa Xaa Cys
 20 25 30
 Xaa Xaa Phe Xaa Tyr Gly Gly Cys Xaa Xaa Asn Ala Asn Asn Phe Xaa
 35 40 45
 Thr Xaa Glu Glu Cys Glu Ser Thr Cys Ala Ala
 50 55

<210> 46
 <211> 59
 <212> PRT
 <213> *Pseudonaja textilis*

<400> 46
 Lys Asp Arg Pro Asp Phe Cys Glu Leu Pro Ala Asp Thr Gly Pro Cys
 1 5 10 15
 Arg Val Arg Phe Pro Ser Phe Tyr Tyr Asn Pro Asp Glx Lys Lys Cys
 20 25 30
 Leu Glx Phe Ile Tyr Gly Gly Cys Glu Gly Asn Ala Asn Asn Phe Ile
 35 40 45
 Thr Lys Glu Glu Cys Glu Ser Thr Cys Gly Ser
 50 55

<210> 47
 <211> 59
 <212> PRT
 <213> *Pseudonaja textilis*

<400> 47
 Lys Asp Arg Pro Glu Leu Cys Glu Leu Pro Pro Asp Thr Gly Pro Cys
 1 5 10 15
 Arg Val Arg Phe Pro Ser Phe Tyr Tyr Asn Pro Asp Glu Gln Lys Cys

20 25 30
 Leu Glu Phe Ile Tyr Gly Gly Cys Glu Glu Asn Ala Asn Ala Phe Ile
 35 40 45

Thr Lys Glu Glu Cys Glu Ser Thr Cys Gly Gly
 50 55

<210> 48
 <211> 62
 <212> PRT
 <213> Unknown Organism

<220>
 <223> Description of Unknown Organism: Taicotoxin
 associated plasmin inhibitor

<400> 48
 Lys Asp Arg Pro Lys Phe Cys His Leu Pro Pro Lys Pro Gly Pro Cys
 1 5 10 15

Arg Ala Ala Ile Pro Arg Phe Tyr Tyr Asn Pro His Ser Lys Gln Cys
 20 25 30

Glu Lys Phe Ile Tyr Gly Gly Cys His Gly Asn Ala Asn Lys Phe Lys
 35 40 45

Thr Pro Asp Glu Cys Asn Tyr Thr Cys Leu Gly Val Ser Leu
 50 55 60

<210> 49
 <211> 58
 <212> PRT
 <213> Unknown Organism

<220>
 <223> Description of Unknown Organism: Aprotinin

<400> 49
 Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Lys Ala
 1 5 10 15

Arg Ile Ile Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
 20 25 30

Phe Val Tyr Gly Gly Cys Arg Ala Lys Arg Asn Asn Phe Lys Ser Ala
 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
 50 55

<210> 50
 <211> 180
 <212> DNA

<213> *Pseudonaja textilis*

<220>

<221> CDS

<222> (1)..(180)

<220>

<221> modified_base

<222> (177)

<223> A, T, C or G

<400> 50

atg aag gac cgg cct gat ttt tgt gaa ctg cct gct gac acc gga cca	48
Met Lys Asp Arg Pro Asp Phe Cys Glu Leu Pro Ala Asp Thr Gly Pro	
1 5 10 15	
tgt aga gtc aga ttc cca tcc ttg tac tac aac cca gat gaa aaa aaa	96
Cys Arg Val Arg Phe Pro Ser Leu Tyr Tyr Asn Pro Asp Glu Lys Lys	
20 25 30	
tgc ctc gag ttt att tat ggt gga tgc gaa ggg aat gct aac gat ttt	144
Cys Leu Glu Phe Ile Tyr Gly Gly Cys Glu Gly Asn Ala Asn Asp Phe	
35 40 45	
atg acc aaa gag gag tgt gaa agc acg tgt ggn agt	180
Met Thr Lys Glu Glu Cys Glu Ser Thr Cys Gly Ser	
50 55 60	

<210> 51

<211> 60

<212> PRT

<213> *Pseudonaja textilis*

<400> 51

Met Lys Asp Arg Pro Asp Phe Cys Glu Leu Pro Ala Asp Thr Gly Pro	
1 5 10 15	
Cys Arg Val Arg Phe Pro Ser Leu Tyr Tyr Asn Pro Asp Glu Lys Lys	
20 25 30	
Cys Leu Glu Phe Ile Tyr Gly Gly Cys Glu Gly Asn Ala Asn Asp Phe	
35 40 45	
Met Thr Lys Glu Glu Cys Glu Ser Thr Cys Gly Ser	
50 55 60	

<210> 52

<211> 180

<212> DNA

<213> *Pseudonaja textilis*

<220>

<221> CDS

<222> (1)..(180)

<220>
 <221> modified_base
 <222> (177)
 <223> A, T, C or G

<400> 52
 atg aag gac cgg cct gag ttg tgt gaa ctg cct cct gac acc gga cca 48
 Met Lys Asp Arg Pro Glu Leu Cys Glu Leu Pro Pro Asp Thr Gly Pro
 1 5 10 15
 tgt aga gtc aga ttc cca tcc ttg tac tac aac cca gat gaa caa aaa 96
 Cys Arg Val Arg Phe Pro Ser Leu Tyr Tyr Asn Pro Asp Glu Gln Lys
 20 25 30
 tgc ctc gag ttt att tat ggt gga tgc gaa gag aat gat aac gct ttt 144
 Cys Leu Glu Phe Ile Tyr Gly Gly Cys Glu Glu Asn Asp Asn Ala Phe
 35 40 45
 atg acc aaa gag gag tgt gaa agc acg tgt ccn ggt 180
 Met Thr Lys Glu Glu Cys Glu Ser Thr Cys Pro Gly
 50 55 60

<210> 53
 <211> 60
 <212> PRT
 <213> Pseudonaja textilis

<400> 53
 Met Lys Asp Arg Pro Glu Leu Cys Glu Leu Pro Pro Asp Thr Gly Pro
 1 5 10 15
 Cys Arg Val Arg Phe Pro Ser Leu Tyr Tyr Asn Pro Asp Glu Gln Lys
 20 25 30
 Cys Leu Glu Phe Ile Tyr Gly Gly Cys Glu Glu Asn Asp Asn Ala Phe
 35 40 45
 Met Thr Lys Glu Glu Cys Glu Ser Thr Cys Pro Gly
 50 55 60

<210> 54
 <211> 408
 <212> DNA
 <213> Pseudonaja textilis

<400> 54
 ggagcttcat catgtcttct ggaggtcttc ttctcctgct gggactcctc accctctggg 60
 aggtgctgac ccccgctctcc agcaaggacc gtccagagtt gtgtgaactg cctcctgaca 120
 ccggaccatg tagagtcaga tccccatcct tctactacaa ccagatgaa caaaaatgcc 180
 tagagtttat ttatggtgga tgcgaaggga atgctaacca attttatcac caaagaggaa 240
 tgcgaaagca cctgtgctgc ctgaatgagg agaccctcct ggattggatc gacagttcca 300
 acttgacca aagaccctgc ttctgccttg gaccaccctg gacacccttc ccccaaacc 360
 caccctggac taattccttt tctctgcaat aaagctttgg ttccagct 408

<210> 55
 <211> 83
 <212> PRT
 <213> *Pseudonaja textilis*

Met	Ser	Ser	Gly	Gly	Leu	Leu	Leu	Leu	Leu	Gly	Leu	Leu	Thr	Leu	Trp
1				5					10					15	
Glu	Val	Leu	Thr	Pro	Val	Ser	Ser	Lys	Asp	Arg	Pro	Asp	Phe	Cys	Glu
			20					25					30		
Leu	Pro	Ala	Asp	Thr	Gly	Pro	Cys	Arg	Val	Arg	Phe	Pro	Ser	Phe	Tyr
		35					40					45			
Tyr	Asn	Pro	Asp	Glu	Lys	Lys	Cys	Leu	Glu	Phe	Ile	Tyr	Gly	Gly	Cys
	50					55					60				
Glu	Gly	Asn	Ala	Asn	Asn	Phe	Ile	Thr	Lys	Glu	Glu	Cys	Glu	Ser	Thr
65					70					75					80

Cys Ala Ala

<210> 56
 <211> 252
 <212> DNA
 <213> *Pseudonaja textilis*

<400> 56
 atgtcttctg gaggtcttct tctcctgctg ggactcctca ccctctggga ggtgctgacc 60
 cccgtctcca gcaaggaccg tccggatttc tgtgaactgc ctgctgacac cggaccatgt 120
 agagtcagat tcccatcctt ctactacaac ccagatgaaa aaaagtgcct agagtttatt 180
 tatggtgat gcaaggaa tgctaacaat tttatcacca aagaggaatg cgaaagcacc 240
 tgtgctgcct ga 252

<210> 57
 <211> 83
 <212> PRT
 <213> *Pseudonaja textilis*

Met	Ser	Ser	Gly	Gly	Leu	Leu	Leu	Leu	Leu	Gly	Leu	Leu	Thr	Leu	Trp
1				5					10					15	
Glu	Val	Leu	Thr	Pro	Val	Ser	Ser	Lys	Asp	Arg	Pro	Glu	Leu	Cys	Glu
			20					25					30		
Leu	Pro	Pro	Asp	Thr	Gly	Pro	Cys	Arg	Val	Arg	Phe	Pro	Ser	Phe	Tyr
			35				40					45			
Tyr	Asn	Pro	Asp	Glu	Gln	Lys	Cys	Leu	Glu	Phe	Ile	Tyr	Gly	Gly	Cys
	50					55					60				

Glu Gly Asn Ala Asn Asn Phe Ile Thr Lys Glu Glu Cys Glu Ser Thr
 65 70 75 80

Cys Ala Ala

<210> 58
 <211> 252
 <212> DNA
 <213> *Pseudonaja textilis*

<400> 58
 atgtcttctg gaggtcttct tctcctgctg ggactcctca ccctctggga ggtgctgacc 60
 cccgtctcca gcaaggaccg tccagagttg tgtgaactgc ctctgacac cggaccatgt 120
 agagtcagat tcccatcctt ctactacaac ccagatgaac aaaaatgcct agagttttatt 180
 tatggtggat gcgaaggga tgctaacaat tttatcacca aagaggaatg cgaaagcacc 240
 tgtgctgcct ga 252

<210> 59
 <211> 83
 <212> PRT
 <213> *Pseudonaja textilis*

<400> 59
 Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
 1 5 10 15
 Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Asn Phe Cys Lys
 20 25 30
 Leu Pro Ala Glu Thr Gly Arg Cys Asn Ala Lys Ile Pro Arg Phe Tyr
 35 40 45
 Tyr Asn Pro Arg Gln His Gln Cys Ile Glu Phe Leu Tyr Gly Gly Cys
 Gly Gly Asn Ala Asn Asn Phe Lys Thr Ile Lys Glu Cys Glu Ser Thr
 65 70 75 80

Cys Ala Ala

<210> 60
 <211> 252
 <212> DNA
 <213> *Pseudonaja textilis*

<400> 60
 atgtcttctg gaggtcttct tctcctgctg ggactcctca ccctctggga ggtgctgacc 60
 cccgtctcca gcaaggaccg tccaaatttc tgtaaactgc ctgctgaaac cggacgatgt 120
 aatgccaaaa tccacgctt ctactacaac ccacgtcaac atcaatgcat agagttttctc 180
 tatggtggat gcggagggaa tgctaacaat ttaagacca ttaaggaatg cgaaagcacc 240
 tgtgctgcat ga 252

<210> 61
 <211> 83
 <212> PRT
 <213> Pseudonaja textilis

<400> 61
 Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
 1 5 10 15
 Glu Val Leu Thr Pro Val Ser Ser Lys Asp His Pro Lys Phe Cys Glu
 20 25 30
 Leu Pro Ala Asp Thr Gly Ser Cys Lys Gly Asn Pro Val Arg Phe Tyr
 35 40 45
 Tyr Asn Ala Asp His His Gln Cys Leu Lys Phe Ile Tyr Gly Gly Cys
 50 55 60
 Gly Gly Asn Ala Asn Asn Phe Lys Thr Ile Glu Glu Cys Lys Ser Thr
 65 70 75 80
 Cys Ala Ala

<210> 62
 <211> 252
 <212> DNA
 <213> Pseudonaja textilis

<400> 62
 atgtcttctg gaggtcttct tctcctgctg ggactcctca ccctctggga ggtgctgacc 60
 cccgtctcca gcaaggacca tccaaaattc tgtgaactcc ctgctgaaac cggatcatgt 120
 aaaggcaacg tcccacgctt ctactacaac gcagatcatc atcaatgcct aaaatttatt 180
 tatggtggat gtggaggga tgctaacaat tttaagacca tagaggaagg caaaagcacc 240
 tgtgctgcct ga 252

<210> 63
 <211> 83
 <212> PRT
 <213> Pseudonaja textilis

<400> 63
 Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
 1 5 10 15
 Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Lys Phe Cys Glu
 20 25 30
 Leu Leu Pro Asp Thr Gly Ser Cys Glu Asp Phe Thr Gly Ala Phe His
 35 40 45
 Tyr Ser Thr Arg Asp Arg Glu Cys Ile Glu Phe Ile Tyr Gly Gly Cys
 50 55 60
 Gly Cys Asn Ala Asn Asn Phe Ile Thr Lys Glu Glu Cys Glu Ser Thr

65

70

75

80

Cys Ala Ala

<210> 64

<211> 252

<212> DNA

<213> *Pseudonaja textilis*

<400> 64

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atgtcttctg gaggtcttct tctcctgctg ggactcctca ccctctggga ggtgctgacc 60
cccgctctcca gcaaggaccg tccaaaattc tgtgaactgc ttcctgacac cggatcatgt 120
gaagacttta ccggagcctt ccactacagc acacgtgatc gtgaatgcat agagtttatt 180
tatggtggat gcggagggaa tgctaacaat tttatcacca aagaggaatg cgaaagcacc 240
tgtgctgcct ga                                     252

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<210> 65

<211> 83

<212> PRT

<213> *Pseudonaja textilis*

<400> 65

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Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
  1              5              10              15

Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Lys Phe Cys Glu
              20              25              30

Leu Pro Ala Asp Ile Gly Pro Cys Asp Asp Phe Thr Gly Ala Phe His
              35              40              45

Tyr Ser Pro Arg Glu His Glu Cys Ile Glu Phe Ile Tyr Gly Gly Cys
  50              55              60

Lys Gly Asn Ala Asn Asn Phe Asn Thr Gln Glu Glu Cys Glu Ser Thr
  65              70              75              80

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Cys Ala Ala

<210> 66

<211> 252

<212> DNA

<213> *Pseudonaja textilis*

<400> 66

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atgtcttctg gaggtcttct tctcctgctg ggactcctca ccctctggga ggtgctgacc 60
cccgctctcca gcaaggaccg tccaaagttc tgtgaactgc ctgctgacat cggaccatgg 120
gatgacttta ccggagcctt ccactacagc ccacgtgaac atgaatgcat agagtttatt 180
tatggtggat gcaaagggaa tgctaacaac ttttaataccc aagagcaatg cgaaagcacc 240
tgtgctgcct ga                                     252

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<210> 67
 <211> 59
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Formula
 peptide

<220>
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 <222> (3)
 <223> Lys, Arg, His, Asp, Glu, Gln or Asn

<220>
 <221> MOD_RES
 <222> (5)
 <223> Lys, Arg, His, Asp, Glu, Gln or Asn

<220>
 <221> MOD_RES
 <222> (6)
 <223> Hydrophobic amino acid

<220>
 <221> MOD_RES
 <222> (8)

<220>
 <221> MOD_RES
 <222> (10)..(11)
 <223> Neutral amino acid, Pro, Ala, Gly, Ser, Thr, Val
 or Leu

<220>
 <221> MOD_RES
 <222> (12)
 <223> Lys, Arg, His, Asp, Glu, Gln or Asn

<220>
 <221> MOD_RES
 <222> (13)
 <223> Neutral amino acid, Pro, Ala, Gly, Ser, Thr, Val
 or Leu

<220>
 <221> MOD_RES
 <222> (15)
 <223> Any amino acid from Table 1 or Table 2 in the specification
 as filed

<220>
 <221> MOD_RES
 <222> (17)
 <223> Lys, Arg, His, Asp, Glu, Gln or Asn

<220>
<221> MOD_RES
<222> (18)..(20)
<223> Any amino acid from Table 1 or Table 2 in the specification
as filed

<220>
<221> MOD_RES
<222> (21)
<223> Neutral amino acid, Pro, Ala, Gly, Ser, Thr, Val
or Leu

<220>
<221> MOD_RES
<222> (22)
<223> Any amino acid from Table 1 or Table 2 in the specification
as filed

<220>
<221> MOD_RES
<222> (24)
<223> Aromatic amino acid

<220>
<221> MOD_RES
<222> (26)
<223> Any amino acid from Table 1 or Table 2 in the specification
as filed

<220>
<221> MOD_RES
<222> (27)
<223> Neutral amino acid, Pro, Ala, Gly, Ser, Thr, Val
or Leu

<220>
<221> MOD_RES
<222> (28)..(31)
<223> Lys, Arg, His, Asp, Glu, Gln or Asn

<220>
<221> MOD_RES
<222> (33)
<223> Neutral amino acid, Pro, Ala, Gly, Ser, Thr, Val
or Leu

<220>
<221> MOD_RES
<222> (34)
<223> Lys, Arg, His, Asp, Glu, Gln or Asn

<220>
<221> MOD_RES
<222> (36)
<223> Neutral amino acid, Pro, Ala, Gly, Ser, Thr, Val
or Leu

<220>
 <221> MOD_RES
 <222> (41)
 <223> Any amino acid from Table 1 or Table 2 in the specification
 as filed

<220>
 <221> MOD_RES
 <222> (42)
 <223> Neutral amino acid, Pro, Ala, Gly, Ser, Thr, Val,
 Leu or Cys

<220>
 <221> MOD_RES
 <222> (48)
 <223> Any amino acid from Table 1 or Table 2 in the specification
 as filed

<220>
 <221> MOD_RES
 <222> (50)
 <223> Any amino acid from Table 1 or Table 2 in the specification
 as filed

<400> 67
 Lys Asp Xaa Pro Xaa Xaa Cys Xaa Leu Xaa Xaa Xaa Xaa Gly Xaa Cys
 1 5 10 15
 Xaa Xaa Xaa Xaa Xaa Xaa Phe Xaa Tyr Xaa Xaa Xaa Xaa Xaa Xaa Cys
 20 25 30
 Xaa Xaa Phe Xaa Tyr Gly Gly Cys Xaa Xaa Asn Ala Asn Asn Phe Xaa
 35 40 45
 Thr Xaa Glu Glu Cys Glu Ser Thr Cys Ala Ala
 50 55

<210> 68
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 68
 Glu Cys Glu Ser Thr Cys Ala Ala
 1 5

<210> 69
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 69

Asn Ala Asn Asn Phe

1 5

<210> 70

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 70

Tyr Gly Gly Cys

1